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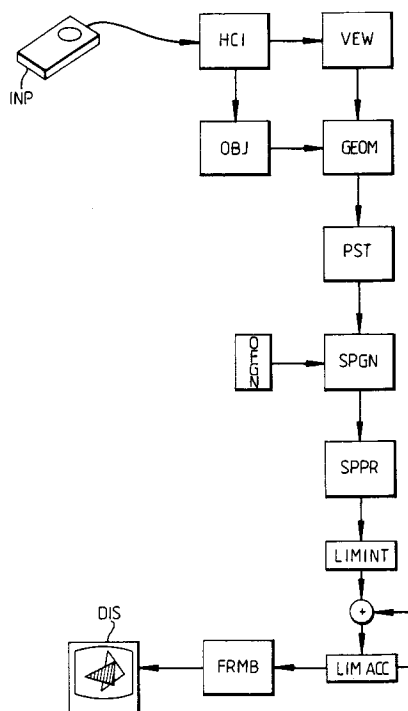
(11) Publication number:

0 464 907 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **91201580.7**(51) Int. Cl.⁵: **G06F 15/72**(22) Date of filing: **20.06.91**(30) Priority: **29.06.90 GB 9014555**
09.01.91 GB 9100452(43) Date of publication of application:
08.01.92 Bulletin 92/02(84) Designated Contracting States:
DE FR GB IT(88) Date of deferred publication of the search report:
31.03.93 Bulletin 93/13(71) Applicant: **PHILIPS ELECTRONICS UK LIMITED**
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Place
London WC1E 7HD (GB)(54) **Generating an image.**

(57) Apparatus for generating an image of objects in a three dimensional space for display on a two dimensional regular pixel array includes means (OFGN, SPGN) for anti-alias filtering which causes multiple rendition of the image with each rendition displaced by a sub-pixel offset (N_x, N_y) with respect to the previous rendition. Image primitives are rendered by a scan line algorithm using a linked active polygon list (APL) and a deleted polygon list (DPL) to enable vertical offsets to be effected. The deleted polygon list stores primitives which would not be effective for a given line but for the offset to enable anti-alias filtering. These polygons would not normally be available for processing when using the scan line algorithm. Economical hardware (600) is provided for horizontal edge correction of parameters such as depth (z) and texture coordinates (u, v).

**FIG.3****EP 0 464 907 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 91 20 1580

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	PROCEEDINGS OF THE IFIP WG 10.3 WORKING CONFERENCE ON HIGHLY PARALLEL COMPUTERS FOR NUMERICAL AND SIGNAL PROCESSING APPLICATIONS March 1986, SOPHIA ANTIPOLIS, FR pages 247 - 258	1	G06F15/72
A	W. STRASSER 'A VLSI-ORIENTED ARCHITECTURE FOR PARALLEL PROCESSING IMAGE GENERATION' * pages 247-249, chapter "INTRODUCTION" * * pages 253-257, chapters "A PIPELINE FOR SCAN CONVERSION", "Anti-Aliasing" and "Object processor" *	2	
A	WO-A-8 700 660 (ANAMARTIC LIMITED) * page 2, line 14 - page 7, line 28 * * page 8, line 6 - page 9, line 11 * * page 11, line 2 - line 33 * * figures 1-3,6,8 *	1,2,11	
A	EP-A-0 329 101 (KABUSHIKI KAISHA TOSHIBA) * page 2, line 1 - page 4, line 48; figures 1-4 *	1,2,11	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G06F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 JANUARY 1993	Examiner VOLMER W.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	